BRUHATH BANGALORE MAHANAGARA PALIKE

Name of the Agency	:	**Mr. G.N. Ramesh,** No.01, 3rd Main, Gandhi Grama, 7th Cross, Maruthi Extn., Opp Malleshwaram Railway Station, Bangalore - 560 021.
Name of the Work	:	Providing pothole filling at Ward No.13 Shettyhalli Sub Division, BBMP, Bangalore.
Estimate Cost	:	Rs.

QUALITY CONTROL REPORTS TO

Asst. Executive Engineer,
Shettyhalli Sub Division,
BBMP, Bangalore.

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Basaveshwaranagar, Bangalore – 560 079.

QUALITY CONTROL REPORTS FOR

WET MIX MACADAM (WMM)

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Job No.: CTCE/BBMP/W.No.13/GNR/WMM/Gradation/2016-17

10.05.2016

GRADATION FOR WMM

MORTH TABLE-400-11

Customer : **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.

Agency : **Mr. G.N. Ramesh,**
No.01, 3rd Main, Gandhi Grama, 7th Cross, Maruthi Extn., Opp Malleshwaram Railway Station, Bangalore - 560 021.

Name of Work : Providing pothole filling at Ward No.13 Shettyhalli Sub Division, BBMP, Bangalore.

Reference : EE/DD/WO/83/2015-16 Dated: 24.03.2016

Date of Testing : 10.05.2016

Material : WMM

Sample Location : WMM Mix Plant

Oven Dry Wt (gm): 8285

Is Sieve Size in mm	Weight Retained (gm)	Cumulative Weight Retained (gm)	Cumulative % of Retained	Cumulative % of Passing	Spec.Limits
53	0	0	0	100	100
45	155	155	1.9	98.1	95-100
22.4	2650	2805	33.9	66.1	60-80
11.2	1190	3995	48.2	51.8	40-60
4.75	1105	5100	61.6	38.4	25-40
2.36	990	6090	73.5	26.5	15-30
0.600	895	6985	84.3	15.7	8-22
0.075	820	7805	94.2	5.8	0-8

Note:

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Job No.: CTCE/BBMP/W.No.13/GNR/WMM/AIV/2016-17

10.05.2016

Aggregate Impact Value

IS: 2386 Part IV

Customer	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	**Mr. G.N. Ramesh,** No.01, 3rd Main, Gandhi Grama, 7th Cross, Maruthi Extn., Opp Malleshwaram Railway Station, Bangalore - 560 021.
Name of the Work	Providing pothole filling at Ward No.13 Shettyhalli Sub Division, BBMP, Bangalore.
Reference	EE/DD/WO/83/2015-16 Dated: 24.03.2016
Source / Location	WMM Plant
Type of Mix	Wet Mix macadam
Date of Testing	10.05.2016

Sl No.	Details	Trial No. 1	Trial No. 2	Average
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	389	392	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	85	88	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	304	304	
4	Aggregate Impact value = percent fines	21.85	22.45	
	100* (W_2/W_1)%			22.15

Comments:

→ Maximum allowable Aggregate Impact value for Wet mix Macadam is 30%

Note:

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Job No.: CTCE/BBMP/W.No.13/GNR/WMM/S-T/2016-17 10.05.2016

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Customer	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	**Mr. G.N. Ramesh,** No.01, 3rd Main, Gandhi Grama, 7th Cross, Maruthi Extn., Opp Malleshwaram Railway Station, Bangalore - 560 021.
Name of Work	Providing pothole filling at Ward No.13 Shettyhalli Sub Division, BBMP, Bangalore.
Reference	EE/DD/WO/83/2015-16 Dated: 24.03.2016
Technical Reference	IS 2386(Part 1) 1963 (RA 2011)
Type of Mix	Wet Mix Macadam
Date of Testing	10.05.2016

Result : Flakiness Index = **11.98%**

Elongation Index = **13.25%**

Result : Combined Flakiness & Elongation index **25.23%**

Comments:

Maximum allowable Flakiness & Elongation Index for Wet Mix Macadam is 30%

Note:

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QUALITY CONTROL REPORTS FOR

BITUMINOUS CONCRETE

CIVIL-TECH CONSULTANTS AND ENGINEERS

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T-2377

Job No.: CTCE/BBMP/W.No.13/GNR/CSR-05/040a/QB(BC)/2016-17 18.05.2016

TEST REPORT ON DETERMINATION OF BITUMEN CHARACTERISTICS

*CUSTOMER	:	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
*AGENCY	:	**Mr. G.N. Ramesh,** No.01, 3rd Main, Gandhi Grama, 7th Cross, Maruthi Extn., Opp Malleshwaram Railway Station, Bangalore - 560 021.
*NAME OF THE WORK	:	Providing pothole filling at Ward No.13 Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	:	EE/DD/WO/83/2015-16 Dated: 24.03.2016
*SAMPLE ID	:	Bitumen
DATE OF SAMPLING	:	16.05.2016
DATE OF TESTING	:	18.05.2016

The results of the tests conducted on the bitumen sample.

Sl. No	Description	Test Method as per IS	Test Result	Requirement as per IS:73:2013
1	Penetration at 25 ^{0}C, 1/10 mm	IS :1203 -1978 (RA-2009)	68	60 to 70
2	Softening point, ^{0}C	IS :1205 -1978 (RA-2009)	46	Min. 45
3	Ductility at 27^{0}C, cm	IS :1208 -1978 (RA-2009)	100 >	Min. 50
4	Flash Point, ^{0}C	IS :1209 -1978 (RA-2009)	302	Min. 220

*Information is furnished by the Customer/Representative.

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VISHWANATH .C
Quality Manager

****

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Job No.: CTCE/BBMP/W.No.13/GNR/BC/AIV/2016-17

18.05.2016

Aggregate Impact Value

IS: 2386 Part IV

Customer	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	**Mr. G.N. Ramesh,** No.01, 3rd Main, Gandhi Grama, 7th Cross, Maruthi Extn., Opp Malleshwaram Railway Station, Bangalore - 560 021.
Name of the Work	Providing pothole filling at Ward No.13 Shettyhalli Sub Division, BBMP, Bangalore.
Reference	EE/DD/WO/83/2015-16 Dated: 24.03.2016
Source / Location	Hot Mix Plant, Bangalore
Type of Mix	Bituminous Concrete
Date of Testing	18.05.2016

Sl No.	Details	Trial No.		Average
		1	2	
1	Total weight of aggregate sample filling the cylindrical measure = W_1 g	380	382	
2	Weight of agregate passing 2.36 mm sieve after the test = W_2 g	78	79	
3	Weight of aggregate retained 2.36 mm sieve after the test = W_3 g	302	303	
4	Aggregate Impact value = percent fines 100* (W_2/W_1) percent	20.53	20.68	**20.60**

Comments:

→ Maximum allowable Aggregate Impact value for Bituminous Concrete is 24%

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Job No.: CTCE/BBMP/W.No.13/GNR/BC/Shape.T/2016-17 : 18.05.2016

DETERMINATION OF FLAKINESS INDEX & ELONGATION INDEX OF COARSE AGGREGATES

Customer	: **Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	: **Mr. G.N. Ramesh,** No.01, 3rd Main, Gandhi Grama, 7th Cross, Maruthi Extn., Opp Malleshwaram Railway Station, Bangalore - 560 021.
Name of Work	: Providing pothole filling at Ward No.13 Shettyhalli Sub Division, BBMP, Bangalore.
Reference	: EE/DD/WO/83/2015-16 Dated: 24.03.2016
Technical Reference	: IS 2386(Part 1) 1963 (RA 2007)
Type of Mix	: Bituminous Concrete
Date of Testing	: 18.05.2016

Result : Flakiness Index = **11.89%**

Elongation Index = **13.25%**

Result : Combined Flakiness & Elongation index **25.14%**

Comments:

→ Maximum allowable Flakiness & Elongation Index for Bituminous Concrete is 30%

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Job No.: CTCE/BBMP/W.No.13/GNR/BC/Stripping/2016-17 20.05.2016

Stripping Value of Road Aggregates (Static Immersion Test)

IS: 6241

Customer	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	**Mr. G.N. Ramesh,** No.01, 3rd Main, Gandhi Grama, 7th Cross, Maruthi Extn., Opp Malleshwaram Railway Station, Bangalore - 560 021.
Name of the Work	Providing pothole filling at Ward No.13 Shettyhalli Sub Division, BBMP, Bangalore.
Reference	EE/DD/WO/83/2015-16 Dated: 24.03.2016
Type of Mix	Bituminous Concrete
Date of Testing	20.05.2016

Type of binder : 60/70

Percentage of binder used : 5.00% by wt.

Total weight of aggregate : 200 g

Total weight of binder : 10.00 g

Temperature of water-bath : 40° C

Observation Number	Stripping, Percentage	Average, Percentage	Average Retained Coating, %
1	3.2	3.30	96.70
2	3.4		
3	3.3		

Comments:

→ Minimum allowable Aggregate retained coating for Bituminous Concrete is 95%

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Job No.: CTCE/BBMP/W.No.13/GNR/BC/Sp_Wa/2016-17 20.05.2016

Specific Gravity And Water Absorption Test

IS: 2386 Part III

Customer	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	**Mr. G.N. Ramesh,** No.01, 3rd Main, Gandhi Grama, 7th Cross, Maruthi Extn., Opp Malleshwaram Railway Station, Bangalore - 560 021.
Name of the Work	Providing pothole filling at Ward No.13 Shettyhalli Sub Division, BBMP, Bangalore.
Reference	EE/DD/WO/83/2015-16 Dated: 24.03.2016
Type of Mix	Bituminous Concrete
Date of Testing	20.05.2016

Sl. No.	Details	Notation	Test Number			Mean Value
			Test 1	Test 2	Test 3	
1	Weight of aggregate suspended in water with the basket	W_1 g	2002	2003	2004	
2	Weight of basket suspended in water	W_2 g	755	755	755	
3	Weight of saturated aggregate in water	$(W_1 - W_2) = W_s$ g	1239	1238	1249	
4	Weight of saturated surface dry aggregate in air	W_3 g	2015	2012	2018	
5	Weight of water equal to the volume of the aggregate	$(W_3 - W_S)$ g	776	774	769	
6	Weight of oven dried aggregate	W_4 g	1994	2005	2010	
7	Specific Gravity	$W_4/(W_3-W_S)$	2.570	2.590	2.614	2.591
8	Apparent Specific gravity	$W_4/(W_4-W_S)$	2.641	2.614	2.641	2.632
9	Water Absorption	$((W_3-W_4)*100)/W_4$	1.05%	0.35%	0.40%	0.60%

Comments:

→ Maximum allowable Aggregate Water absorption value for Bituminous Concrete is 2.0%

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Job No: CTCE/BBMP/W.No.13/GNR/BC/Bitumen/2016-17 20.05.2016

BITUMEN CONTENT DETERMINATION OF BITUMINOUS CONCRETE MIX

As per IRC:SP:11-1984

CUSTOMER	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	**Mr. G.N. Ramesh,** No.01, 3rd Main, Gandhi Grama, 7th Cross, Maruthi Extn., Opp Malleshwaram Railway Station, Bangalore - 560 021.
NAME OF THE WORK	Providing pothole filling at Ward No.13 Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	EE/DD/WO/83/2015-16 Dated: 24.03.2016
SAMPLE I/D	Pot hole filling to roads in Ward No.13.
DATE OF TESTING	20.05.2016

BITUMEN CONTENT DETERMINATION

Description	Trail 1	Trail 2
1. Weight of Mixture before Test, g	500	500
2. Weight of Mixture after Test, g	474	473
3. Weight of Asphalt and Mineral matter Extracted, g	-	-
4. Weight of Mineral Matter, g.	-	-
5. Weight of Ash, g		
6. Weight of Bitumen Extracted, g. (corrected)	26	27.00
7. Bitumen content in %	5.20	5.40
8. Average	**5.30**	

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Job No: CTCE/BBMP/W.No.13/GNR/BC/Bitumen/2016-17 20.05.2016

BITUMEN CONTENT AFTER GRADATION DETERMINATION OF BITUMINOUS CONCRETE MIX

As Per IS 2386 and IRC:SP:11-1984

CUSTOMER	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
AGENCY	**Mr. G.N. Ramesh,** No.01, 3rd Main, Gandhi Grama, 7th Cross, Maruthi Extn., Opp Malleshwaram Railway Station, Bangalore - 560 021.
NAME OF THE WORK	Providing pothole filling at Ward No.13 Shettyhalli Sub Division, BBMP, Bangalore.
REFERENCE	EE/DD/WO/83/2015-16 Dated: 24.03.2016
SAMPLE I/D	Pot hole filling to roads in Ward No.13.
DATE OF TESTING	20.05.2016

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GRADATION AFTER EXTRACTION

Sieve Size in mm	Trail 1				Specified Limits as per MORTH specification table 500-18 (Grading-2)
	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	44.35	9.36	9.36	90.64	79-100
9.5	33.15	6.99	16.35	83.65	70-88
4.75	72.32	15.26	31.61	68.39	53-71
2.36	68.52	14.46	46.06	53.94	42-58
1.18	50.23	10.60	56.66	43.34	34-48
0.6	52.32	11.04	67.70	32.30	26-38
0.3	48.32	10.19	77.89	22.11	18-28
0.15	40.22	8.49	86.38	13.62	12-20
0.075	38.56	8.14	94.51	5.49	4-10

Sieve Size in mm	Trail 2				Specified Limits as per MORTH specification table 500-18 (Grading-2)
	Weight Retained, gm	% Retained	%Cummulative Retained	% Passing	
19	0	0	0	100	100
13.2	32.32	6.83	6.83	93.17	79-100
9.5	48.25	10.20	17.03	82.97	70-88
4.75	66.31	14.02	31.05	68.95	53-71
2.36	70.21	14.84	45.90	54.10	42-58
1.18	75.21	15.90	61.80	38.20	34-48
0.6	42.32	8.95	70.74	29.26	26-38
0.3	30.26	6.40	77.14	22.86	18-28
0.15	24.36	5.15	82.29	17.71	12-20
0.075	42.32	8.95	91.24	8.76	4-10

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Job No.: CTCE/BBMP/W.No.13/GNR/BC/Agg/2016-17 20.05.2016

Aggregate Gradation Test

IS : 2386 Part I

Customer	**Asst. Executive Engineer,** Shettyhalli Sub Division, BBMP, Bangalore.
Agency	**Mr. G.N. Ramesh,** No.01, 3rd Main, Gandhi Grama, 7th Cross, Maruthi Extn., Opp Malleshwaram Railway Station, Bangalore - 560 021.
Name of theWork	Providing pothole filling at Ward No.13 Shettyhalli Sub Division, BBMP, Bangalore.
Reference	EE/DD/WO/83/2015-16 Dated: 24.03.2016
Sample I / D	Hot Mix Plant, Bangalore
Type of Mix	Bituminous Concrete
Date of Testing	20.05.2016

Total Weight of Sample: **5150** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	JOBMIX Gradation as per MORTH	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	750	14.56	14.56	85.44	79 - 100	
9.5	525	10.19	24.76	75.24	70 - 88	
4.75	615	11.94	36.70	63.30	53 - 71	
2.36	540	10.49	47.18	52.82	42 - 58	
1.18	530	10.29	57.48	42.52	34 - 48	
0.600	525	10.19	67.67	32.33	26 - 38	
0.300	585	11.36	79.03	20.97	18 - 28	
0.150	380	7.38	86.41	13.59	12 - 20	
0.075	360	6.99	93.40	6.60	4 - 10	

Total Weight of Sample: **5250** gm

SIEVE SIZE, mm	Weight Retained, gm	% Retained	Cummulative % Retained	% Passing	JOBMIX Gradation as per MORTH	Remarks
19	0	0	0	100	100	Gradation satisfies Bituminous concrete Grade-II specification as per MORTH
13.2	640	12.19	12.19	87.81	79 - 100	
9.5	535	10.19	22.38	77.62	70 - 88	
4.75	620	11.81	34.19	65.81	53 - 71	
2.36	560	10.67	44.86	55.14	42 - 58	
1.18	665	12.67	57.52	42.48	34 - 48	
0.600	525	10.00	67.52	32.48	26 - 38	
0.300	595	11.33	78.86	21.14	18 - 28	
0.150	390	7.43	86.29	13.71	12 - 20	
0.075	410	7.81	94.10	5.90	4 - 10	

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